

Z1907: A Phase I Study of Infused Mobilized, Autologous Peripheral Blood Progenitor Cells, which Have Been Incubated with a Recombinant Adenovirus-Wild-Type p53(SCH 58500) Construct to Purge any Contaminating Breast Cancer Cells, as Stem Cell Support after High-Dose Chemotherapy in Patients with Breast Cancer Metastatic to Bone and Bone Marrow.

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Non Technical Abstract

Cancer cells contaminating harvested stem cells may cause relapse of breast cancer after bone marrow transplantation. It has been shown that a certain virus coupled with a normal cellular gene involved in naturally suppressing cancer cells called the P53 gene (SCH 58500) can kill these cancer cells while not damaging the normal stem cells which allow the marrow to recover. In this study we will mix stem cells collected from patients at high risk for cancer cell contamination with SCH 58500. We will measure how effective this strategy is at removing contaminating cancer cells and by using this cleansed product we will assess whether it can be safely used to transplant breast cancer patients. The importance, if successful, will be that we will have a relatively low technology, widely applicable method for removing contaminating cancer cells.